

# Horizon Europe Cluster 5

Destination 1: Climate sciences and responses for the transformation towards climate neutrality

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2021. 03. 23.

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## Climate sciences and responses for the transformation towards climate neutrality



- **Support EU policies** as well as international efforts for a global uptake of climate action in line with the **Paris Agreement** and the Sustainable Development Goals (SDGs), including biodiversity objectives
- **Advancing climate science and further broadening and deepening the knowledge base** is essential to inform the societal transition towards a climate neutral and climate resilient society by 2050, as well as towards a more ambitious greenhouse gas reduction target by 2030
- **Enable the transition to a climate-neutral and resilient society and economy** through improving the knowledge of the Earth system and the ability to predict and project its changes under different natural and socio-economic drivers
- Contributes directly to the Strategic Plan's **Key Strategic Orientation D** *"Making Europe the first digitally led circular, climate-neutral and sustainable economy through the transformation of its mobility, energy, construction and production systems"* and the **impact area** "Climate change mitigation and adaptation"

## Climate sciences and responses for the transformation towards climate neutrality



- The overall **expected impact** of this Destination is to contribute to the *“Transition to a climate-neutral and resilient society and economy enabled through advanced climate science, pathways and responses to climate change (mitigation and adaptation) and behavioural transformations”*
- **Coordination and synergies** between activities supported under Destination 1, as well as in other Destinations and Clusters, and in particular complementarities with **Cluster 4** and **Cluster 6** should be taken into account
- Destination 1 concentrates on activities related to **climate science and modelling**, whereas Cluster 6 contributes to R&I on the implementation of climate change mitigation and adaptation solutions in the areas covered by Cluster



## Climate sciences and responses for the transformation towards climate neutrality



- **Indicative budget:**
- 2021: 136 million EUR
- 2022: 137 million EUR
- Opening: 15 Apr 2021
- Deadline(s): 07 Sep 2021
- 2022 two-stage:
- Opening: 04 Nov 2021
- Deadline(s): 15 Feb 2022 (First Stage), 07 Sep 2022 (Second Stage)

## Climate sciences and responses for the transformation towards climate change



- Understanding of greenhouse gas fluxes; carbon dioxide technologies
- Circular economy for climate change mitigation
- Impact and synergy of European climate R&I
- Integrated assessment
- Interaction between climate change impacts and risks, mitigation and adaptation
- Standardising climate services
- Improved economic methods for decision-making
- Forest management
- Socio-economic risks of climate change
- Social science for land-use strategies

## Mission: Adaptation to climate change, including societal transformation



- **Turn** the urgent **challenge** of adapting to climate change **into an opportunity** to make Europe more climate resilient, prepared and just
- Much of the action to adapt to climate change will take place at the **regional and local level**
- Need to create a **level playing field**, and support regional and local authorities in preparing the ground to engage in climate resilience building
- Climate resilient Europe is understood to include three fundamental and interrelated dimensions and principles: **resilience of environmental systems, resilience of social and economic systems, and resilience of political systems**

# Thank you for your attention!

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